

## WEST Search History

DATE: Wednesday, January 19, 2005

<u>Hide?</u>	<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L12	L6 and bacillus and ksm-ap1378	19
<input type="checkbox"/>	L11	L8 not l4	58
<input type="checkbox"/>	L10	L9 not l4	5
<input type="checkbox"/>	L9	bacillus with 1378	10
<input type="checkbox"/>	L8	L6 and bacillus and 1378	80
<input type="checkbox"/>	L6	amylase with (gene or sequence)	5623
<input type="checkbox"/>	L5	L4 not l2	21
<input type="checkbox"/>	L4	L3 and 1378	22
<input type="checkbox"/>	L3	L1 with (gene or sequence)	1837
<input type="checkbox"/>	L2	L1 with 1378	1
<input type="checkbox"/>	L1	amylase with bacillus	3653

END OF SEARCH HISTORY

# Hit List

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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

**Search Results - Record(s) 1 through 1 of 1 returned.**

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1. Document ID: US 6486113 B1

**Using default format because multiple data bases are involved.**

L2: Entry 1 of 1

File: USPT

Nov 26, 2002

US-PAT-NO: 6486113

DOCUMENT-IDENTIFIER: US 6486113 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Mutant .alpha.-amylases

DATE-ISSUED: November 26, 2002

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hatada; Yuji	Tochigi			JP
Ikawa; Kaori	Tochigi			JP
Ito; Susumu	Tochigi			JP
Igarashi; Kazuaki	Tochigi			JP
Hagiwara; Hiroshi	Tochigi			JP
Hayashi; Yasuhiro	Tochigi			JP
Araki; Hiroyuki	Tochigi			JP
Ozaki; Katsuya	Tochigi			JP

US-CL-CURRENT: 510/392; 435/113, 435/187, 435/202, 435/204, 435/263, 435/440,  
435/442, 510/300, 510/320, 510/530

Full	Title	Citation	Faint	Review	Classification	Date	Reference	Claims	KINIC	Drawn
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
L1 with 1378	1

**Display Format:** [-] **Change Format**

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## Hit List

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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACCS				

**Search Results - Record(s) 1 through 10 of 21 returned.**

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1. Document ID: US 20040265959 A1

**Using default format because multiple data bases are involved.**

L5: Entry 1 of 21

File: PGPB

Dec 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040265959

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040265959 A1

TITLE: Highly productive alpha-amylases

PUBLICATION-DATE: December 30, 2004

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	COUNTRY	RULE-47
Araki, Hiroyuki	Tochigi		JP	
Endo, Keiji	Tochigi		JP	
Hagihara, Hiroshi	Tochigi		JP	
Igarashi, Kazuaki	Tochigi		JP	
Hayashi, Yasuhiro	Tochigi		JP	
Ozaki, Katsuya	Tochigi		JP	

US-CL-CURRENT: 435/69.1; 435/204, 435/252.3, 435/320.1, 510/320, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Drawn D
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2. Document ID: US 20040249125 A1

L5: Entry 2 of 21

File: PGPB

Dec 9, 2004

PGPUB-DOCUMENT-NUMBER: 20040249125

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040249125 A1

TITLE: Outer membrane vesicle (omv) vaccine comprising n. meningitidis serogroup b outer membrane proteins

PUBLICATION-DATE: December 9, 2004

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	COUNTRY	RULE-47
Pizza, Mariagrazia	Siena		IT	

Rappuoli, Rino	Siena	IT
Giuliani, Marzia Monica	Siena	IT

US-CL-CURRENT: 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn De
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3. Document ID: US 20040107461 A1

L5: Entry 3 of 21

File: PGPB

Jun 3, 2004

PGPUB-DOCUMENT-NUMBER: 20040107461

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040107461 A1

TITLE: Glucan chain length domains

PUBLICATION-DATE: June 3, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Commuri, Padma	Ankeny	IA	US	
Keeling, Peter L.	Ames	IA	US	
Ramirez, Nona	Ames	IA	US	
McKean, Angela	Ames	IA	US	
Gao, Zhong	Ames	IA	US	
Guan, Hanping	Ames	IA	US	

US-CL-CURRENT: 800/284; 435/101, 435/193, 435/320.1, 435/419, 435/69.1, 536/102, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn De
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4. Document ID: US 20040082028 A1

L5: Entry 4 of 21

File: PGPB

Apr 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040082028

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040082028 A1

TITLE: Pullulanase variants and methods for preparing such variants with predetermined properties

PUBLICATION-DATE: April 29, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Svendsen, Allan	Birkeroed		DK	

US-CL-CURRENT: 435/69.1; 435/18, 435/210, 435/325, 435/6, 702/19

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWC](#) | [Draw](#)

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5. Document ID: US 20040048247 A1

L5: Entry 5 of 21

File: PGPB

Mar 11, 2004

PGPUB-DOCUMENT-NUMBER: 20040048247

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040048247 A1

TITLE: Pullulanase variants and methods for preparing such variants with predetermined properties

PUBLICATION-DATE: March 11, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Svendsen, Allan	Overdamsvej		DK	
Andersen, Carsten	Hojeloft Vaenge		DK	
Borchert, Torben Vedel	Biskop Svanes Vej		DK	

US-CL-CURRENT: 435/6; 435/210, 435/320.1, 435/325, 435/69.1, 536/23.2, 703/11

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWC](#) | [Draw](#)

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6. Document ID: US 20030166158 A1

L5: Entry 6 of 21

File: PGPB

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030166158

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030166158 A1

TITLE: NTR3, a novel member of the TNF-receptor supergene family

PUBLICATION-DATE: September 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hsu, Hailing	Moorpark	CA	US	

US-CL-CURRENT: 435/69.5; 435/320.1, 435/325, 530/351, 536/23.5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWC](#) | [Draw](#)

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7. Document ID: US 20030129718 A1

L5: Entry 7 of 21

File: PGPB

Jul 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030129718  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030129718 A1

TITLE: Amylase variants

PUBLICATION-DATE: July 10, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Andersen, Carsten	Vaerlose		DK	
Borchert, Torben Vedel	Birkeroed		DK	
Nielsen, Bjarne Ronfeldt	Virum		DK	

US-CL-CURRENT: 435/183; 510/392

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINIC](#) | [Drawn D](#)

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8. Document ID: US 20020197698 A1

L5: Entry 8 of 21

File: PGPB

Dec 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020197698  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020197698 A1

TITLE: Novel amylases

PUBLICATION-DATE: December 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hagiwara, Hiroshi	Haga-gun		JP	
Kitayama, Kaori	Haga-gun		JP	
Hayashi, Yasuhiro	Haga-gun		JP	
Igarashi, Kazuaki	Haga-gun		JP	
Endo, Keiji	Haga-gun		JP	
Ozaki, Katsuya	Haga-gun		JP	

US-CL-CURRENT: 435/201; 435/320.1, 435/325, 435/69.1, 536/23.2

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINIC](#) | [Drawn D](#)

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9. Document ID: US 20020123124 A1

L5: Entry 9 of 21

File: PGPB

Sep 5, 2002

PGPUB-DOCUMENT-NUMBER: 20020123124  
PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020123124 A1

TITLE: Highly productive alpha-amylases

PUBLICATION-DATE: September 5, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Araki, Hiroyuki	Haga-gun		JP	
Endo, Keiji	Haga-gun		JP	
Hagihara, Hiroshi	Haga-gun		JP	
Igarashi, Kazuaki	Haga-gun		JP	
Hayashi, Yasuhiro	Haga-gun		JP	
Ozaki, Katsuya	Haga-gun		JP	

US-CL-CURRENT: 435/202; 435/320.1, 435/325, 435/69.1, 536/23.2[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D](#)

## 10. Document ID: US 6838257 B2

L5: Entry 10 of 21

File: USPT

Jan 4, 2005

US-PAT-NO: 6838257

DOCUMENT-IDENTIFIER: US 6838257 B2

TITLE: Pullulanase variants and methods for preparing such variants with predetermined properties

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D](#)[Clear](#) | [Generate Collection](#) | [Print](#) | [Fwd Refs](#) | [Bkwd Refs](#) | [Generate OACs](#)

Terms	Documents
L4 not L2	21

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<a href="#">Generate GACCS</a>				

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### Search Results - Record(s) 11 through 20 of 21 returned.

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11. Document ID: US 6743616 B2

Using default format because multiple data bases are involved.

L5: Entry 11 of 21

File: USPT

Jun 1, 2004

US-PAT-NO: 6743616

DOCUMENT-IDENTIFIER: US 6743616 B2

\*\* See image for Certificate of Correction \*\*

TITLE: Highly productive alpha-amylases

DATE-ISSUED: June 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Araki; Hiroyuki	Haga-gun			JP
Endo; Keiji	Haga-gun			JP
Hagihara; Hiroshi	Haga-gun			JP
Igarashi; Kazuaki	Haga-gun			JP
Hayashi; Yasuhiro	Haga-gun			JP
Ozaki; Katsuya	Haga-gun			JP

US-CL-CURRENT: 435/202; 435/183, 435/200, 435/4, 435/6, 435/69.1, 510/114, 510/392,  
510/515, 536/23.2, 536/23.7

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Claims</a>	<a href="#">KUMC</a>	<a href="#">Drawn</a>
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12. Document ID: US 6656709 B1

L5: Entry 12 of 21

File: USPT

Dec 2, 2003

US-PAT-NO: 6656709

DOCUMENT-IDENTIFIER: US 6656709 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Methods of increasing the production of cobalamins using cob gene expression

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Claims</a>	<a href="#">KUMC</a>	<a href="#">Drawn</a>
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13. Document ID: US 6599716 B1

L5: Entry 13 of 21

File: USPT

Jul 29, 2003

US-PAT-NO: 6599716

DOCUMENT-IDENTIFIER: US 6599716 B1

TITLE: Nucleic acids encoding NTR3, a member of the TNF-receptor supergene family

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KUMC](#) | [Drawn](#)**□ 14. Document ID: US 6403355 B1**

L5: Entry 14 of 21

File: USPT

Jun 11, 2002

US-PAT-NO: 6403355

DOCUMENT-IDENTIFIER: US 6403355 B1

TITLE: Amylases

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KUMC](#) | [Drawn](#)**□ 15. Document ID: US 6350599 B1**

L5: Entry 15 of 21

File: USPT

Feb 26, 2002

US-PAT-NO: 6350599

DOCUMENT-IDENTIFIER: US 6350599 B1

TITLE: Pullulanase variants and methods for preparing such variants with predetermined properties

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KUMC](#) | [Drawn](#)**□ 16. Document ID: US 6281181 B1**

L5: Entry 16 of 21

File: USPT

Aug 28, 2001

US-PAT-NO: 6281181

DOCUMENT-IDENTIFIER: US 6281181 B1

TITLE: Light-duty liquid or gel dishwashing detergent compositions comprising mid-chain branched surfactants

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KUMC](#) | [Drawn](#)**□ 17. Document ID: US 6162628 A**

L5: Entry 17 of 21

File: USPT

Dec 19, 2000

US-PAT-NO: 6162628

DOCUMENT-IDENTIFIER: US 6162628 A

TITLE: Maltogenic alpha-amylase variants

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWC](#) | [Drawn D](#)**□ 18. Document ID: US 5981229 A**

L5: Entry 18 of 21

File: USPT

Nov 9, 1999

US-PAT-NO: 5981229

DOCUMENT-IDENTIFIER: US 5981229 A

TITLE: Bacterial exported proteins and acellular vaccines based thereon

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWC](#) | [Drawn D](#)**□ 19. Document ID: US 5928900 A**

L5: Entry 19 of 21

File: USPT

Jul 27, 1999

US-PAT-NO: 5928900

DOCUMENT-IDENTIFIER: US 5928900 A

TITLE: Bacterial exported proteins and acellular vaccines based thereon

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWC](#) | [Drawn D](#)**□ 20. Document ID: US 5212074 A**

L5: Entry 20 of 21

File: USPT

May 18, 1993

US-PAT-NO: 5212074

DOCUMENT-IDENTIFIER: US 5212074 A

TITLE: Genetic material encoding new insulin-like growth factor binding protein  
IGFBP-6[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWC](#) | [Drawn D](#)[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACs](#)

Terms	Documents
L4 not L2	21

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Generate OAGCS				

Search Results - Record(s) 21 through 21 of 21 returned.

21. Document ID: JP 08336392 A

Using default format because multiple data bases are involved.

L5: Entry 21 of 21

File: JPAB

Dec 24, 1996

PUB-NO: JP408336392A

DOCUMENT-IDENTIFIER: JP 08336392 A

TITLE: LIQUEFIED-TYPE ALKALI ALPHA-AMYLASE GENE

PUBN-DATE: December 24, 1996

INVENTOR-INFORMATION:

NAME

COUNTRY

HATADA, YUUJI

OZAKI, KATSUYA

ARA, KATSUTOSHI

KAWAI, SHUJI

ITO, SUSUMU

INT-CL (IPC): C12 N 15/09; C12 N 9/28

Full	Title	Citation	Front	Review	Classification	Date	Reference	...	...	...	Claims	KMC	Drawn	De
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OAGCS
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Terms	Documents
L4 not L2	21

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<a href="#">Clear</a>	<a href="#">Generate Collection</a>	<a href="#">Print</a>	<a href="#">Fwd Refs</a>	<a href="#">Bkwd Refs</a>
<a href="#">Generate OACOS</a>				

### Search Results - Record(s) 11 through 19 of 19 returned.

11. Document ID: US 6638748 B2

Using default format because multiple data bases are involved.

L12: Entry 11 of 19

File: USPT

Oct 28, 2003

US-PAT-NO: 6638748

DOCUMENT-IDENTIFIER: US 6638748 B2

TITLE: Gene encoding alkaline liquifying alpha-amylase

DATE-ISSUED: October 28, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hatada; Yuji	Tochigi			JP
Ozaki; Katsuya	Tochigi			JP
Ara; Katsutoshi	Tochigi			JP
Kawai; Shuji	Tochigi			JP
Ito; Susumu	Tochigi			JP

US-CL-CURRENT: 435/202; 435/252.3, 435/252.33, 435/320.1, 536/23.2

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Claims</a>	<a href="#">KWC</a>	<a href="#">Drawn</a>
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12. Document ID: US 6623948 B1

L12: Entry 12 of 19

File: USPT

Sep 23, 2003

US-PAT-NO: 6623948

DOCUMENT-IDENTIFIER: US 6623948 B1

TITLE: Nucleic acid sequences encoding alkaline alpha-amylases

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Claims</a>	<a href="#">KWC</a>	<a href="#">Drawn</a>
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13. Document ID: US 6528298 B1

L12: Entry 13 of 19

File: USPT

Mar 4, 2003

US-PAT-NO: 6528298

DOCUMENT-IDENTIFIER: US 6528298 B1

TITLE: .alpha.-amylase mutants

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw](#)

14. Document ID: US 6361989 B1

L12: Entry 14 of 19

File: USPT

Mar 26, 2002

US-PAT-NO: 6361989

DOCUMENT-IDENTIFIER: US 6361989 B1

TITLE: .alpha.-amylase and .alpha.-amylase variants

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw](#)

15. Document ID: US 6338959 B1

L12: Entry 15 of 19

File: USPT

Jan 15, 2002

US-PAT-NO: 6338959

DOCUMENT-IDENTIFIER: US 6338959 B1

TITLE: Gene for enzyme having both alkaline pullulanase and alkaline .alpha.-amylase activities

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw](#)

16. Document ID: US 6309871 B1

L12: Entry 16 of 19

File: USPT

Oct 30, 2001

US-PAT-NO: 6309871

DOCUMENT-IDENTIFIER: US 6309871 B1

TITLE: Polypeptides having alkaline .alpha.-amylase activity

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw](#)

17. Document ID: US 5635468 A

L12: Entry 17 of 19

File: USPT

Jun 3, 1997

US-PAT-NO: 5635468

DOCUMENT-IDENTIFIER: US 5635468 A

TITLE: Liquefying alkaline .alpha.-amylase, process for producing the same, and detergent composition containing the same

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw](#)

**18. Document ID: JP 2002112792 A**

L12: Entry 18 of 19

File: JPAB

Apr 16, 2002

PUB-NO: JP02002112792A

DOCUMENT-IDENTIFIER: JP 2002112792 A

TITLE: HIGHLY PRODUCTIVE  $\alpha$ -AMYLASE[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWC](#) | [Draw](#)**19. Document ID: US 20040265959 A1, EP 1199356 A2, JP 2002112792 A, CN 1348000 A, US 20020123124 A1, US 6743616 B2**

L12: Entry 19 of 19

File: DWPI

Dec 30, 2004

DERWENT-ACC-NO: 2002-354203

DERWENT-WEEK: 200503

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TITLE: New mutant alpha-amylase, useful in detergent compositions, comprises increased productivity when prepared recombinantly and better resistance to heat

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWC](#) | [Draw](#)[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Terms	Documents
L6 and bacillus and ksm-ap1378	19

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